

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P749934

Luminaire Tested: LD4D55D010-EU4DR3055659050-4LBDP1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749934  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D55D010-EU4DR3055659050-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5692.2 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

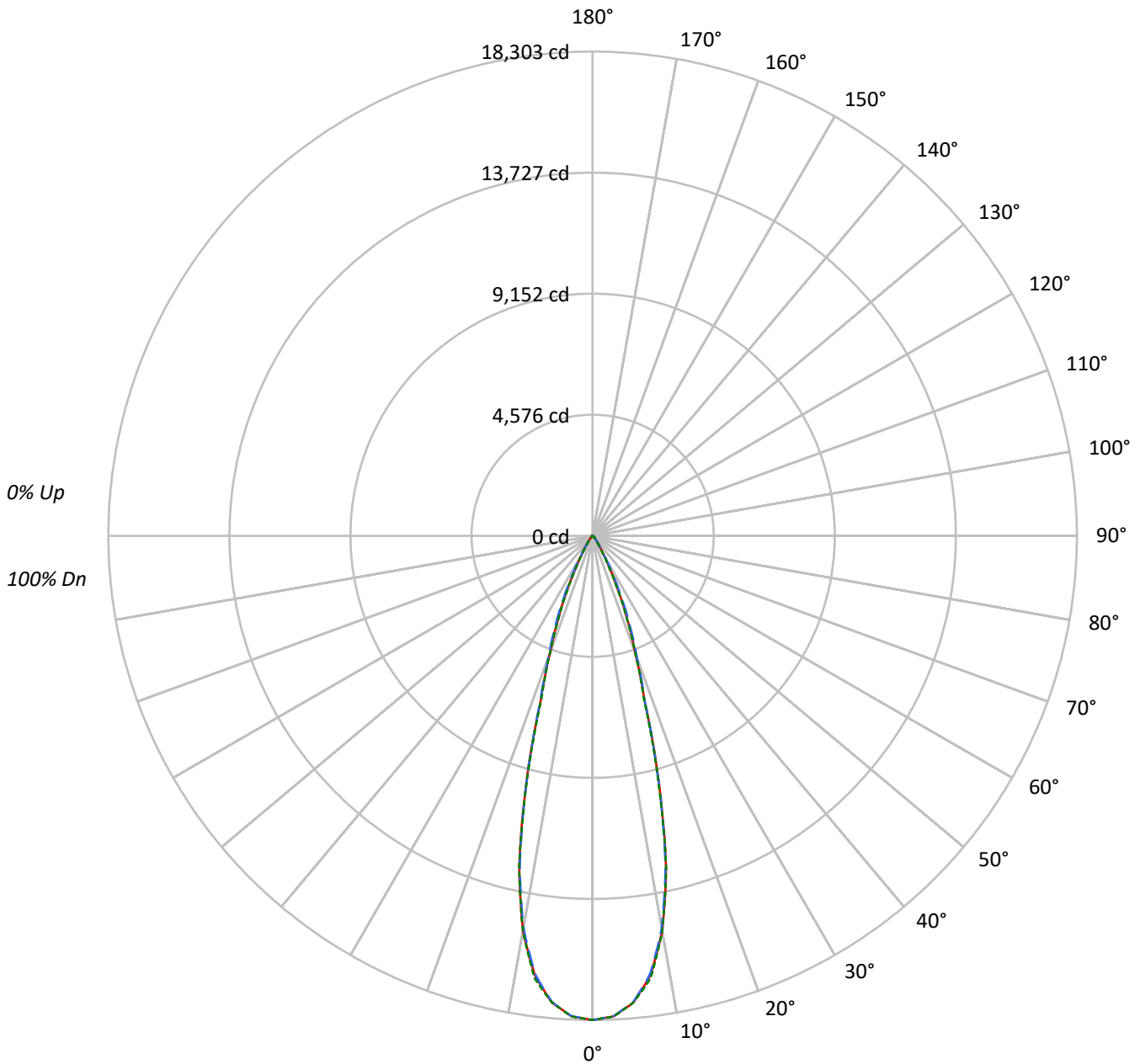


Downlight

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1400989	1400989	1400989
5°	1360769	1359179	1360838
10°	1178633	1170317	1178353
15°	768995	764867	761023
20°	382386	396730	381873
25°	192619	217213	188675
30°	77124	84027	67190
35°	35770	34256	28715
40°	15448	17146	14548
45°	10890	13520	10987
50°	3751	9848	3953
55°	2162	4084	2282
60°	1516	1791	1516
65°	978	978	978
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 13520 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1609.5	28.3
10°-20°	2592.1	45.5
20°-30°	1120.1	19.7
30°-40°	255.3	4.5
40°-50°	87.7	1.5
50°-60°	21.4	0.4
60°-70°	5.6	0.1
70°-80°	0.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5321.7	93.5
0°-40°	5577.0	98.0
0°-60°	5686.1	99.9
0°-90°	5692.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5692.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	18303	18303	18303	18303	18303	
5°	17710	17693	17689	17726	17711	1611
15°	9704	9587	9652	9621	9604	2598
25°	2281	2367	2572	2307	2234	1092
35°	383	391	367	364	307	260
45°	101	125	125	125	102	71
55°	16	17	31	18	17	16
65°	5	5	5	5	5	5
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	18303.2	18303.2	18303.2	18303.2	18303.2
2.5°	18181.8	18169.3	18176.4	18185.4	18189.0
5°	17710.1	17693.0	17689.4	17726.2	17711.0
7.5°	16758.4	16734.2	16697.3	16780.9	16859.1
10°	15164.3	15137.3	15057.3	15096.9	15160.7
12.5°	12810.8	12723.6	12721.8	12847.6	12830.5
15°	9704.2	9587.4	9652.1	9620.7	9603.6
17.5°	6525.8	6480.9	6567.1	6541.1	6428.7
20°	4694.4	4706.1	4870.5	4787.9	4688.1
22.5°	3425.6	3467.8	3662.8	3449.8	3371.6
25°	2280.7	2367.0	2571.9	2306.8	2234.0
27.5°	1402.8	1442.3	1649.9	1384.8	1345.2
30°	872.6	852.8	950.7	815.9	760.2
32.5°	572.4	547.3	578.7	519.4	474.5
35°	382.8	390.9	366.6	363.9	307.3
37.5°	239.0	275.0	242.6	258.8	197.7
40°	154.6	199.5	171.6	189.6	145.6
42.5°	126.7	153.7	141.1	150.1	129.4
45°	100.6	124.9	124.9	124.9	101.5
47.5°	55.7	83.6	106.9	85.4	59.3
50°	31.5	42.2	82.7	44.0	33.2
52.5°	21.6	24.3	56.6	25.2	22.5
55°	16.2	17.1	30.6	18.0	17.1
57.5°	12.6	13.5	16.2	13.5	12.6
60°	9.9	9.9	11.7	10.8	9.9
62.5°	7.2	7.2	8.1	7.2	7.2
65°	5.4	5.4	5.4	5.4	5.4
67.5°	2.7	3.6	3.6	3.6	3.6
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - 90°-270°

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(END OF REPORT)